

What is claimed is:

1. A method for dynamically publishing a document in response to a request comprising the steps:

receiving a request for at least one element of content;

5 identifying at least one client capability attribute associated with the request;

selecting an XSL stylesheet based on the at least one client capability;

selecting a requested XML document based on the request;

merging the XML document and the selected XSL stylesheet to generate the document; and

10 transmitting the document.

2. The method of claim 1, wherein the request for at least one element of content comprises a request for a web page.

3. The method of claim 1, wherein the request for at least one element of content comprises a request for a dynamically generated web page.

4. The method of claim 1 comprising the further step:

caching the requested optimized document as a cached document, the selected XSL stylesheet as a cached XSL stylesheet and the requested XML document as a cached XML document.

5. The method of claim 4 comprising the further step:

selectively transmitting the cached document when a subsequently selected XSL stylesheet corresponds to the cached XSL stylesheet and a subsequently requested XML document corresponds to the cached XML document.

6. The method of claim 5 comprising the further step:

selectively selecting the cached XSL stylesheet if the cached XSL stylesheet corresponds to the subsequently selected XSL stylesheet.

7. The method of claim 5 comprising the further step:
selectively selecting the cached XML document if the cached XML document corresponds to the subsequently requested XML document.

8. The method of claim 7 comprising the further step:
selectively selecting the cached XSL stylesheet if the cached XSL stylesheet corresponds to the subsequently selected XSL stylesheet.

9. The method of claim 1, wherein the document is an XHTML document.

10. A publishing system for dynamically publishing a document comprising:

a styles sheet chooser that selects a stylesheet based on at least one capability associated with a requesting client;

5 a content agent that provides at least one element of content to a processor based on a received request;

a processor that accepts and merges the provided stylesheet and the provided content into the document; and

10 a transmission agent for transmitting the document to the requesting client.

11. The publishing system of claim 10, wherein the content agent selects a predetermined set of content from a database.

12. The publishing (claims 13-20 as well) system of claim 10 wherein the content agent dynamically generates sets of content from a database.

13. The system of claim 10 further comprising:
a cache, wherein the cache maintains a copy of previously transmitted documents as cached documents, previously selected stylesheets as cached stylesheets, and previously requested content as cached content.

14. The system of claim 13, wherein the cache selectively provides a cached document to the transmission agent if the cached document corresponds to the at least one capability associated with the client and the at least one element of content.

15. The system of claim 10, wherein the at least one capability associated with a requesting client is whether the client is a network appliance, a dial-up connected device or a high-speed networked device.

16. The system of claim 10, wherein the at least one capability associated with a requesting client is a browser type and a browser version.

17. The system of claim 10, wherein the at least one capability associated with a requesting client is a supported language capability that identifies the objects, methods and properties that the client can use.

18. The system of claim 10, wherein the at least one capability associated with a requesting client is an amount of bandwidth available to the client.

19. The system of claim 10, wherein the at least one capability associated with a requesting client is a set of physical properties associated with an output device associated with the client.

20. The system of claim 19, wherein the physical properties associated with the output device comprise a screen size, a screen resolution capability, and a screen color capability.